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<p>87-026617/04 A97 E19 G05 (A25) SANN 12.06.85  SANYO CHEM IND LTD *J6 1284-478-A  - 12.06.85-JP-128458 (15.12.86) 841 m-05 D21h-01/38  Chemical for ink jet recording paper - comprises quat. ammonium  salt of polyoxyalkylene amine mono:carboxylate  C87-011380</p>	<p>A(10-E7, 10-E18, 12-W7F) E(10-A22) G(5-F)</p>
<p>A cpd. for ink jet recording paper comprises quaternary  ammonium salt of polyoxyalkylene amine monocarboxylate of  formula (I).</p> $Q \begin{cases} [(AO)_m OCR]_p \\ [(AO)_n H]_q \end{cases} \quad (I)$ <p>Q = residue of quaternary ammonium salt;  A = alkylene;  R = monocarboxylic acid residue;  m and n = integer of above 1;  p = integer of above 1;  q = 0 or integer of above 1.</p>	<p><b>USE/ADVANTAGE</b>  The cpd. develops any ink for ink jet recording and  provides an image which does not discolour on ageing, has  good light fastness, high degree of resolution and good  water resistance.</p> <p><b>DETAILS</b>  In (I), Q is pref. gp. of formula (II), (III), (IV), or  (V).</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <math display="block">\begin{array}{c}   \\ -N^{\oplus} \\ / \quad \backslash \\ R' \quad X^{\ominus} \end{array} \quad (II)</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{c} R_1 \\   \\ -N^{\oplus} \\ / \quad \backslash \\ R' \quad X^{\ominus} \end{array} \quad (III)</math> </div> <div style="text-align: center;"> <math display="block">\begin{array}{c} R_1 \\   \\ -N^{\oplus} - R_2 \\ / \quad \backslash \\ R' \quad X^{\ominus} \end{array} \quad (IV)</math> </div> <div style="text-align: center; margin-top: 20px;"> <math display="block">\begin{array}{c}   \qquad \qquad   \\ -N^{\oplus} - \quad A' - N^{\oplus} \\ / \quad \backslash \quad / \quad \backslash \\ R' \quad X^{\ominus} \quad R' \quad X^{\ominus} \end{array} \quad (V)</math> </div> </div> <p style="text-align: right;">J61284478-A*</p>

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R' = 1-4C alkyl, 2-4C hydroxyalkyl or benzyl;

X<sup>⊖</sup> = anionic pair ion;

R<sub>1</sub> and R<sub>2</sub> = lipophilic gp. having hydrocarbon gp.;

A' = diamine residue:"

The cpd. is e.g., impregnated in base material for ink-jet recording paper, e.g. paper, cloth or resinous film, or is contained in a coating for coat layer on a base material or is used as the aq. soln. on the paper-making process. (6ppW90PADwgNo0/0).

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